

Major General A. D. Starbird Director, Division of Military Application September 29, 1960



Charles L. Dunham, M. D. Director, Division of Biology and Medicine

REQUEST FOR INFORMATION NEEDED FOR ANALYZING THE DISTRIBUTION AND PROPERTIES OF VALLOUT PARTICLES

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Enclosure (1) is a letter from Br. Lester Machta, Chief, Special Projects Section, U. S. Weather Bareau, requesting information which will permit estimates concerning the size and distribution of fallout particles from Pacific test shots.

This same information will also be useful to our Fallout Studies Branch and to the U.S. Baval Endislogical Refense Laboratory. Mill is doing work for us on the physical, chemical, and radiological properties of fallout.

We have checked with Dr. Machta and determined that his interests are limited to the surface, tower, and barge shots in MADDACK, MEDVIES, and CASTLE which have yields over 100 kt, and in BEX Mike. Of particular interest is the barge weight, barge loading, depth of water, crater dimensions and the chemical and physical characteristics of any coral or special sands placed around the devices to limit world-wide fallout.

It may be of some help in the search for the unterial Br. Machta has requested to refer to Appendix B on page 78 et seq. of the Jamuary 1960 report of our Fallout Studies Branch entitled, Contribution of Induced Activities to the External Gamma Radiation from Fallout of Clean and Mormal Wespons. This appendix contains the type of material requested by Br. Machta for several of the shots of interest. In this case the information was provided in a letter dated June 29, 1959 from Mr. S. P. Movell, Manager, Engineering and Construction, Holmes and Marver, Inc. and addressed to Mr. J. B. Sanders, Director, Facific Operations, Albuquerque Operations Office.

Esclosure (1) Letter Machta to Dunham dated September 23, 1960

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cc: Dr. Lester Machta, USUB

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